#7-Effect of Agile on Post-Contract Award

Module TLO: Given a DoD program involved in software development, the student will identify key post-contract award activities that can/need to change to enable Agile program analysis and oversight.

Subtopics

- Documentation
- Regulatory oversight
- Participating in Agile reviews
- Measurement

ELO

- ELO #1 – Recognize the change in frequency of documentation development and delivery in an Agile environment.
- ELO #2 – Identify changes to the role of government agencies/oversight in Agile programs.
- ELO #3 - Recognize the level of involvement required of stakeholders for Agile processes to be effective.
- ELO #4 - Identify how progress is measured at the team and program levels.

ELO Mapping to Sub-topics

Subtopic	ELO(s)
Documentation	1
Regulatory oversight	2
Participating in Agile reviews	3
Measurement	4

Subtopic: #1 Documentation

- Understanding the cadence of documentation development and delivery in an Agile program.
  - Use of projective documentation vs. as-built
  - Incremental delivery of documentation
    - Just enough for a particular iteration
- CDRLs – be careful what you ask for

Subtopic: #2 Regulatory oversight

- Understanding the role of government agencies/oversight in Agile programs.
  - Direction of DCMA, PARCA, AT&L, services etc., Test, Business Systems
  - Service Acquisition Executives
- MT: Growing pains exist. Still doing things the way they always did.
- All these organizations have efforts focused on agile
  - Describe various efforts
  - Links to efforts
- Mindful tailoring?

Subtopic: #3 Participating in Agile reviews

- Understanding the level of involvement required for Agile processes to be effective.
  - Portfolio Management/Road-mapping
  - Release planning
  - Release reviews
  - Iteration Planning
  - Iteration Reviews
- Product owner
- MT: Infrequent large batch iterations move to frequent small batch iterations
- MT: You don’t have an agile product if the user is not a participant

Subtopic: #4 Measurement

- Understanding the tools used to provide program insight in an Agile program.
  - Team Level Measure
    - Team productivity should not be used against the team
    - Do not compare one team against another
    - Identify various measures and how they are used
      - Velocity
    - MT: Definition of Done is a Key to measuring progress
  - Program Level Measure
    - EV Analyst (platinum card) (contractor EVM tool)
    - Cumulative flow diagram (lean engineering world) – lifecycle, time, bottlenecks, state transitions
    - % of user story point completion (aggregate across teams)

Subtopic: #4 Measurement

- Measuring work migration
- Understanding Technical Debt
  - Summarize
    - Intentional (strategic & tactical), Unintentional
  - Managing technical debt
    - The goods and the bads
    - Effects on Velocity